FIG. 1

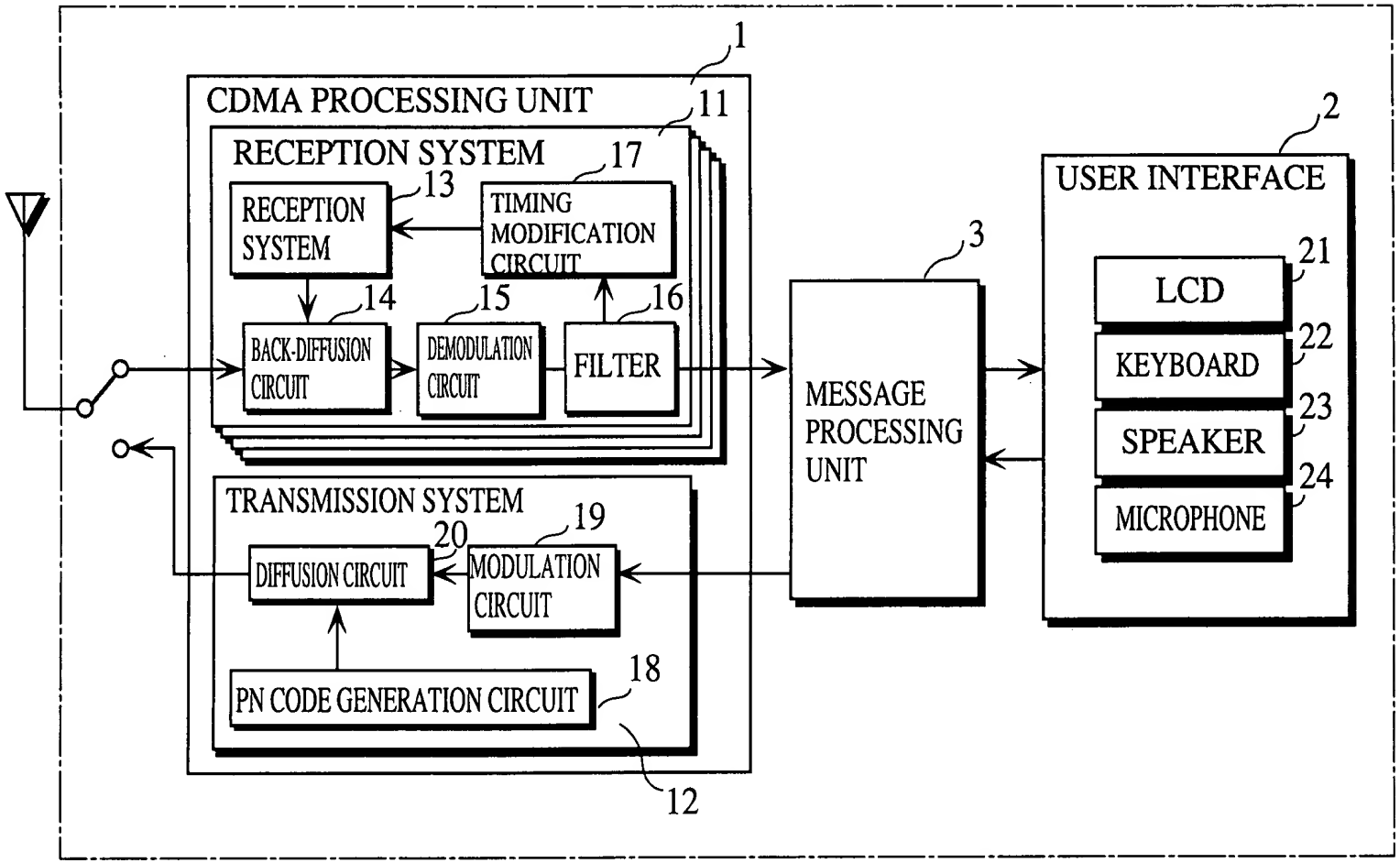

1
CDMA PROCESSING UNIT
11
RECEPTION SYSTEM
17
RECEPTION SYSTEM
13
TIMING MODIFICATION CIRCUIT
14
15
16
BACK-DIFFUSION CIRCUIT
DEMODULATION CIRCUIT
FILTER
TRANSMISSION SYSTEM
19
20
DIFFUSION CIRCUIT
MODULATION CIRCUIT
PN CODE GENERATION CIRCUIT
18
12
3
MESSAGE PROCESSING UNIT
2
USER INTERFACE
21
LCD
22
KEYBOARD
23
SPEAKER
24
MICROPHONE

FIG. 2

STATE TRANSITION MAP

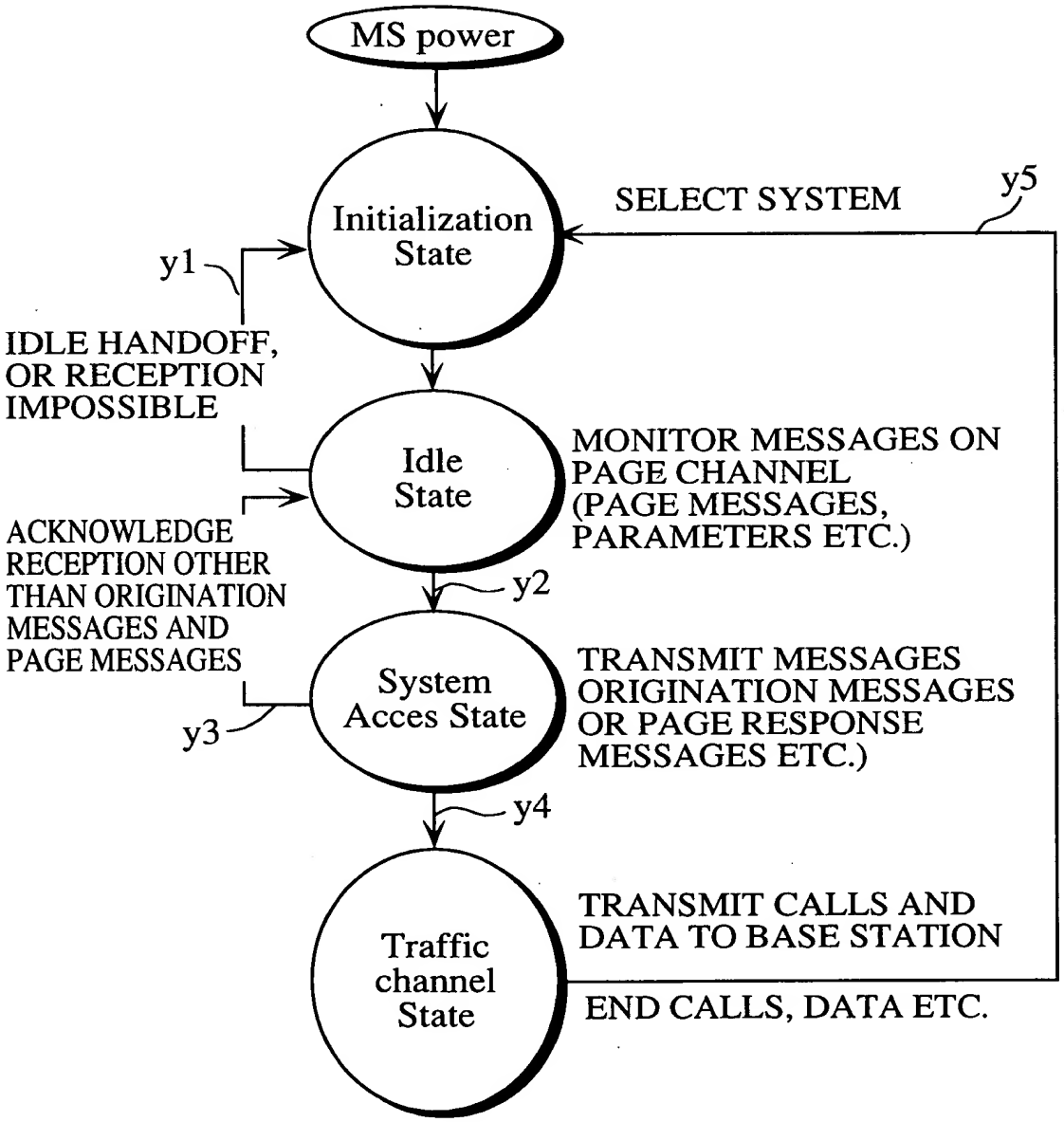


FIG. 3

SYNC CHANNEL MESSAGE

Field	Length(bits)
MSG_TYPE("00000001")	8
P_REV	8
MIN_P_REV	8
SID	15
NID	16
PILOT_PN	9
LC_STATE	42
SYS_TIME	36
LP_SEC	8
LTM_OFF	6
DAYLT	1
PRAT	2
RESERVED	3

FIG.4

Paging Channel Message

	Message Name	Message Type (binary)
	System Parameters Message	00000001
	Access Parameters Message	00000010
①	Neighbor List Message	00000011
	CDMA Channel List Message	00000100
	Slotted Page Message	00000101
	Page Message	00000110
	Order Message	00000111
②	Channel Assignment Message	00001000
	Data Burst Message	00001001
	Authentication Channel Message	00001010
	SSD Update Message	00001011
	Feature Notification Message	00001100
	Extended System Parameters Message	00001101
	Reserved	00001110
	Reserved	00001111
	Service Redirection Message	00010000
	General Page Message	00010001
	Global Service Redirection Message	00010010
	Null Message	

FIG.5A

Forward Traffic Channel Message

Message Name	Message Type (binary)
Order Message	00000001
Authentication Channel Message	00000010
③ Alert With Information Message	00000011
Data Burst Message	00000100
④ Handoff Direction Message	00000101
Analog Handoff Direction Message	00000110
In-Traffic System Parameters Message	00000111
Neighbor List Update Message	00001000
Send Burst DTMF Message	00001001
Power Control Parameters Message	00001010
Retrieve Parameters Message	00001011
Set Parameters Message	00001100
SSD Update Message	00001101
Flash With Information Message	00001110
Mobile Station Registered Message	00001111
Reserve	00010000
Extended Handoff Direction Message	00010001

FIG.5B

Order Message

Registration Rejected Order
Service Option Control Order
Local Control Order
⑤ Service Option Request Order

FIG.6A

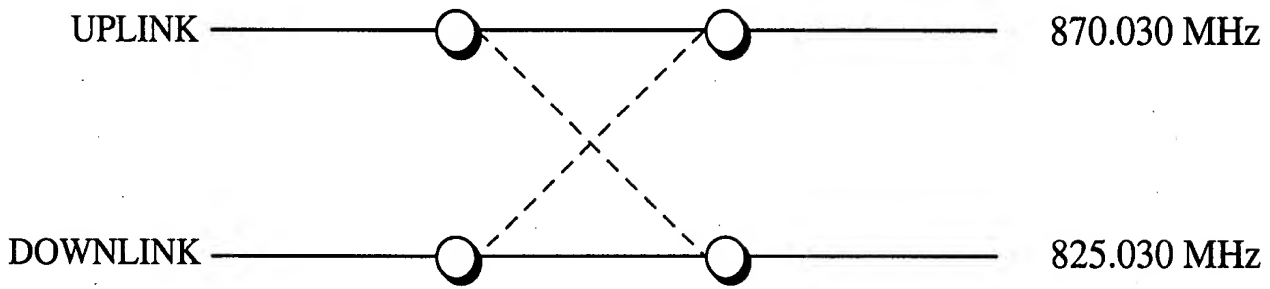

UPLINK
DOWNLINK
870.030 MHz
825.030 MHz

FIG.6B

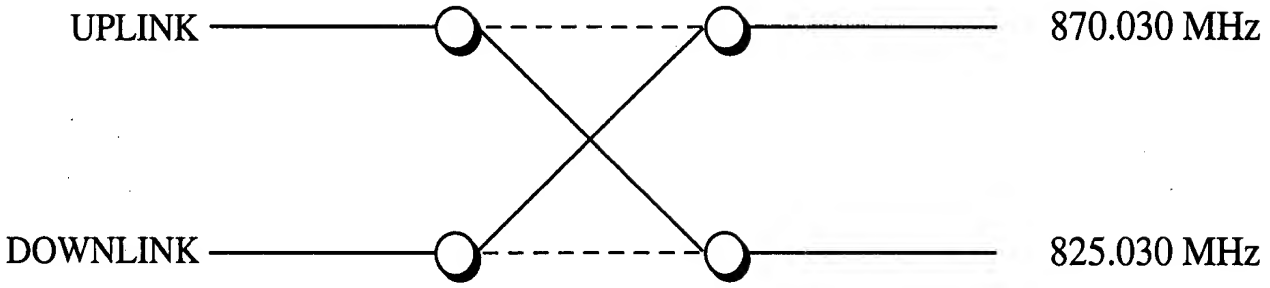

UPLINK
DOWNLINK
870.030 MHz
825.030 MHz

FIG. 7

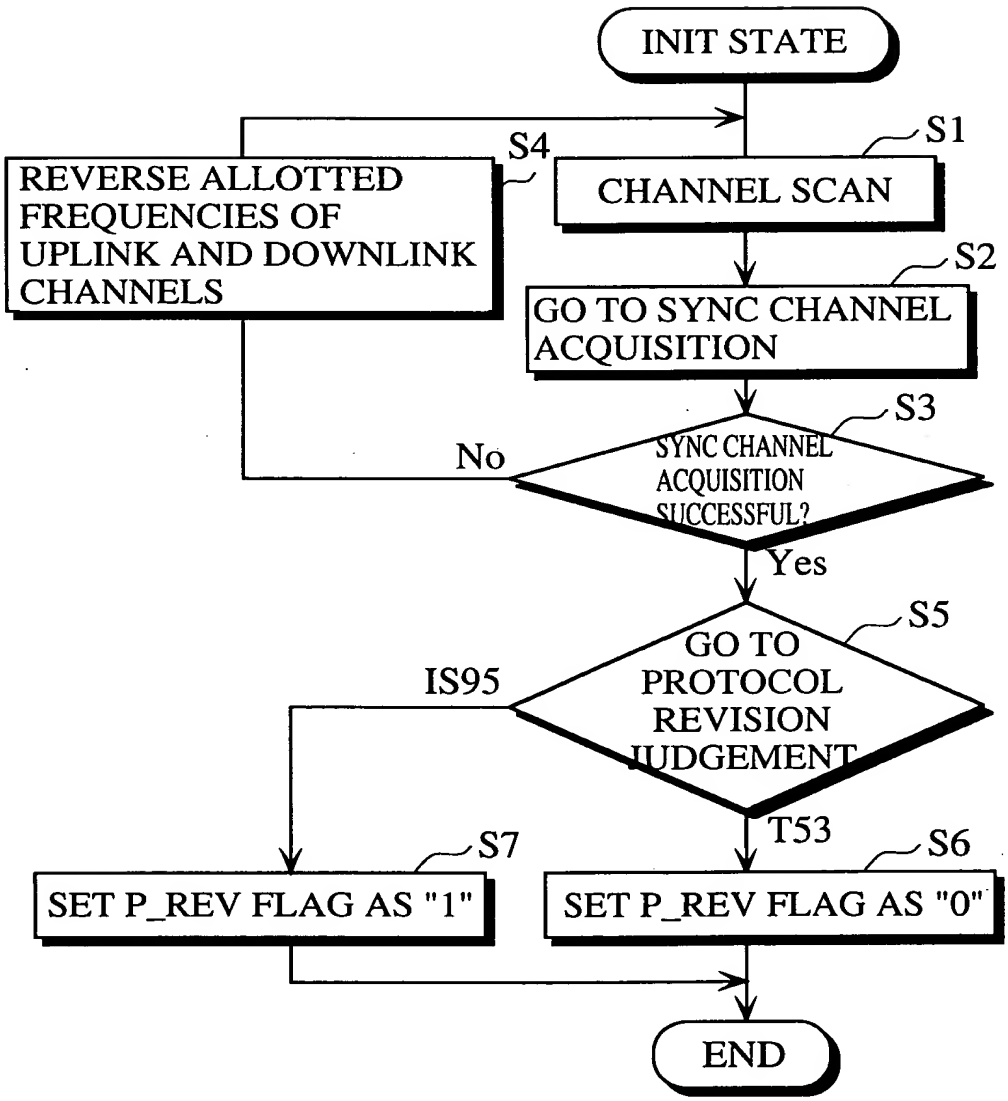
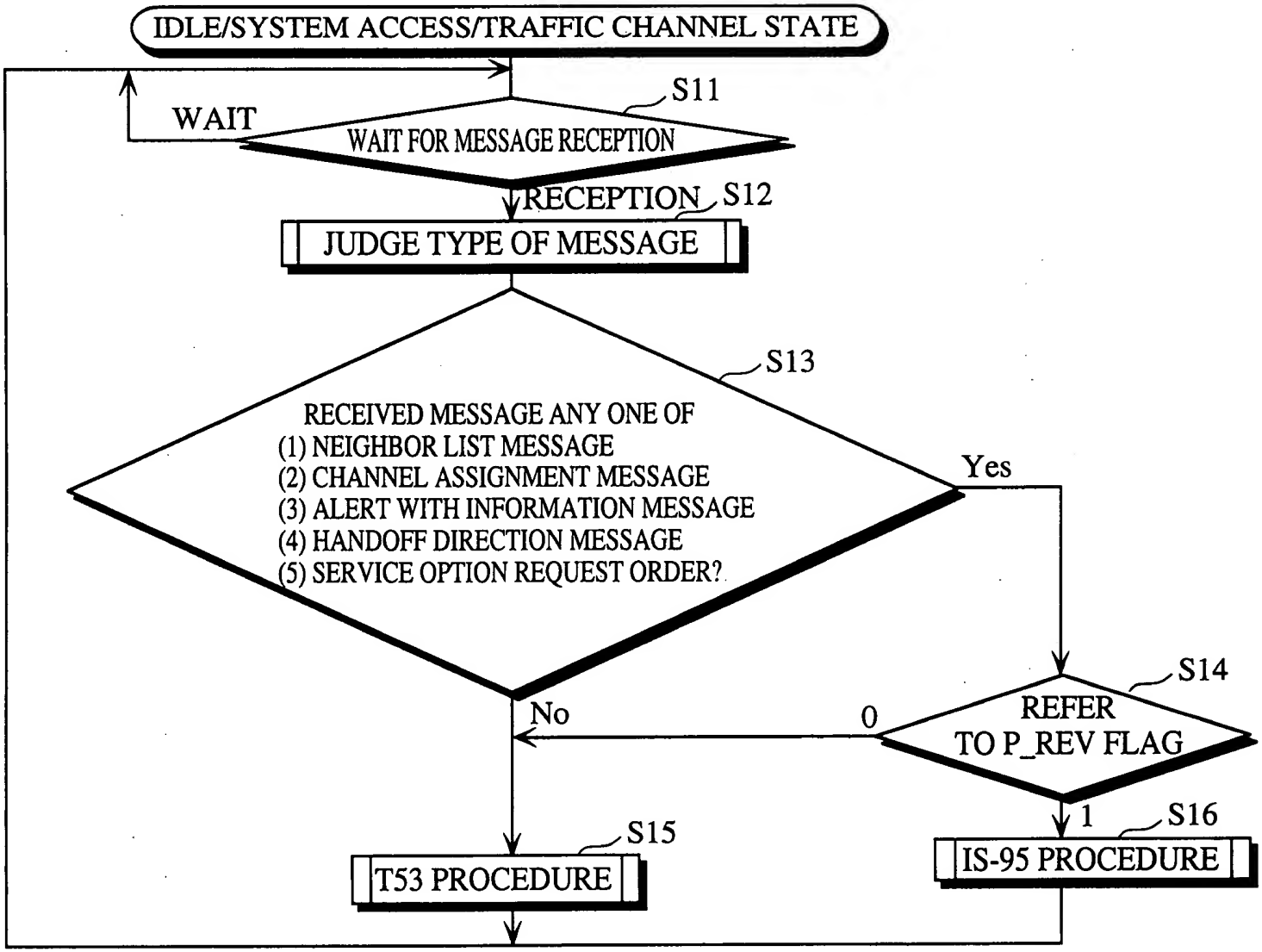

INIT STATE
S1
CHANNEL SCAN
S2
GO TO SYNC CHANNEL ACQUISITION
S3
SYNC CHANNEL ACQUISITION SUCCESSFUL?
No
Yes
S4
REVERSE ALLOTTED FREQUENCIES OF UPLINK AND DOWNLINK CHANNELS
S5
GO TO PROTOCOL REVISION JUDGEMENT
IS95
T53
S6
SET P_REV FLAG AS "0"
S7
SET P_REV FLAG AS "1"
END

FIG. 8


IDLE/SYSTEM ACCESS/TRAFFIC CHANNEL STATE
S11
WAIT
WAIT FOR MESSAGE RECEPTION
RECEPTION
S12
JUDGE TYPE OF MESSAGE
S13
RECEIVED MESSAGE ANY ONE OF
(1) NEIGHBOR LIST MESSAGE
(2) CHANNEL ASSIGNMENT MESSAGE
(3) ALERT WITH INFORMATION MESSAGE
(4) HANDOFF DIRECTION MESSAGE
(5) SERVICE OPTION REQUEST ORDER?
Yes
No
S14
REFER
TO P_REV FLAG
0
1
S15
T53 PROCEDURE
S16
IS-95 PROCEDURE